



Clean Version of the Amended Claims

PACING AND SENSING VECTORS

Applicant: Jeffrey E. Stahmann et al.
Serial No.: 09/779,754

Please replace claims 41 - 54 with their corresponding claims, as amended, below:

41. (Amended) A method, comprising:

programming at least one first pacing pulse vector between (1) at least one of a first left ventricular electrode and a second left ventricular electrode in a left ventricular region, and (2) a first supraventricular electrode in a right atrial region; and

delivering a pacing pulse according to the at least one first programmed pacing pulse vector.

42. (Amended) The method of claim 41, including:

programming at least one sensing vector between (1) at least one of the first left ventricular electrode and the second left ventricular electrode and (2) the first supraventricular electrode; and

sensing a cardiac signal according to the at least one programmed sensing vector.

43. (Amended) The method of claim 41, including programming at least one second pacing pulse vector between (1) at least one of the first left ventricular electrode and the second left ventricular electrode and (2) a conductive housing of an implantable pulse generator, and where delivering the pacing pulse includes delivering the pacing pulse according to the at least one second programmed pacing pulse vector.

44. (Amended) The method of claim 41, including programming at least one second pacing pulse vector between (1) at least one of the first left ventricular electrode and the second left ventricular electrode and (2) a first right ventricular electrode in a right ventricular region; and

delivering a pacing pulse according to the at least one second programmed pacing pulse

vector.

45. (Amended) The method of claim 44, wherein delivering the pacing pulse includes delivering the pacing pulse from the commonly connected first and second left ventricular electrodes to the first right ventricular electrode.

46. (Amended) The method of claim 44, wherein delivering the pacing pulse includes delivering the pacing pulse between (1) the commonly connected first left ventricular electrode and the second left ventricular electrode and (2) the commonly connected first right ventricular electrode and a housing of an implantable pulse generator.

C14
47. (Amended) The method of claim 41, wherein the programming the at least one first pacing pulse vector includes programming the at least one first pacing pulse vector between (1) at least one of the first left ventricular electrode, the second left ventricular electrode and a third left ventricular electrode in the left ventricular region, and (2) the first supraventricular electrode in a right atrial region; and

delivering the pacing pulse according to the at least one first programmed pacing pulse vector.

48. (Amended) A method, comprising:

programming at least one first pacing pulse vector between (1) at least one of a first left ventricular electrode and a second left ventricular electrode in a left ventricular region, and (2) a right ventricular electrode in a right ventricular region; and

delivering a pacing pulse according to the programmed at least one first pacing pulse vector.

49. (Amended) The method of claim 48, including:

programming at least one sensing vector between (1) at least one of the first left ventricular electrode and the second left ventricular electrode, and (2) the right ventricular electrode; and

sensing a cardiac signal according to the programmed at least one sensing vector.

50. (Amended) The method of claim 48, including programming at least one second pacing pulse vector between (1) at least one of the first left ventricular electrode and the second left ventricular electrode, and (2) a conductive housing of an implantable pulse generator, and wherein delivering the pacing pulse includes delivering the pacing pulse according to the at least one second programmed pacing pulse vector.

C14

51. (Amended) The method of claim 48, including programming at least one second pacing pulse vector between (1) at least one of the first left ventricular electrode and the second left ventricular electrode, and (2) a supraventricular electrode in a right atrial region; and

delivering a pacing pulse according to the at least one second pacing pulse vector.

52. (Amended) The method of claim 51, wherein delivering the pacing pulse includes delivering the pacing pulse between (1) the commonly connected first and second left ventricular electrodes and (2) the supraventricular electrode.

53. (Amended) The method of claim 51, wherein delivering the pacing pulse includes delivering the pacing pulse between (1) the commonly connected first left ventricular electrode and the second left ventricular electrode and (2) the commonly connected supraventricular electrode and a housing of an implantable pulse generator.

54. (Amended) The method of claim 48, wherein the programming the at least one first C14 pacing pulse vector includes programming the at least one first pacing pulse vector between (1) at least one of the first left ventricular electrode, the second left ventricular electrode and a third left ventricular electrode in the left ventricular region, and (2) the first right ventricular electrode.
